

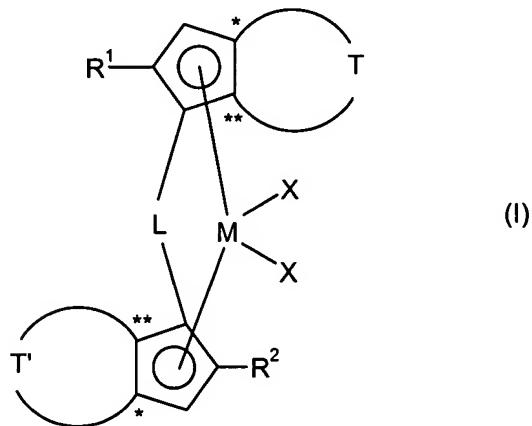


ATTACHMENT A

Claims 1 - 15: (Cancelled)

16. (Currently Amended) A process for preparing a catalyst solid for olefin polymerization comprising a finely divided support, an aluminoxane, a metallocene compound product, and an organometallic compound, wherein the process comprises

- combining the finely divided support with the aluminoxane to form a modified support, and subsequently
- reacting a metallocene compound of formula (I),



where

M is zirconium, hafnium or titanium;

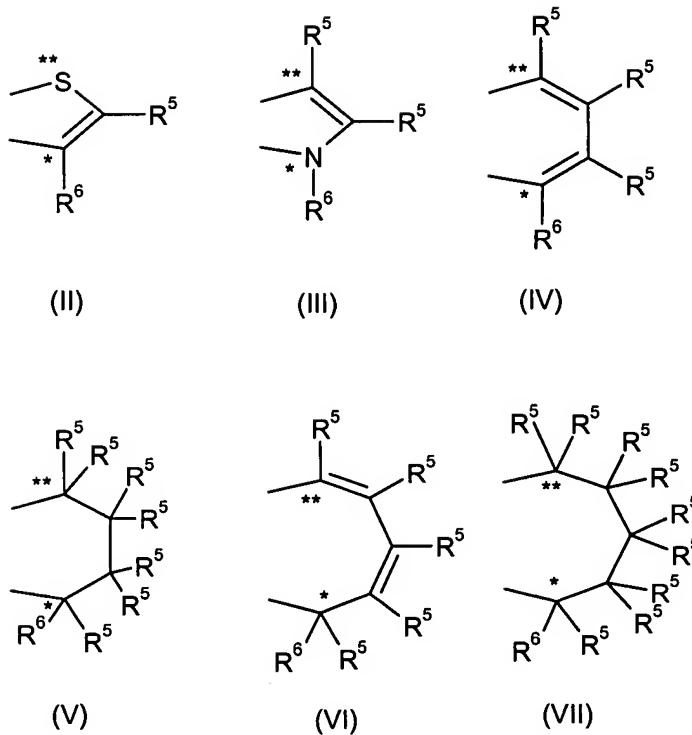
X are identical or different and are each, independently of one another, hydrogen or halogen or a group -R, -OR, -OSO<sub>2</sub>CF<sub>3</sub>, -OCOR, -SR,

-NR<sub>2</sub> or -PR<sub>2</sub>, where R is linear or branched C<sub>1</sub>-C<sub>20</sub>-alkyl, C<sub>3</sub>-C<sub>20</sub>-cycloalkyl which may bear one or more C<sub>1</sub>-C<sub>10</sub>-alkyl radicals as substituents, C<sub>6</sub>-C<sub>20</sub>-aryl, C<sub>7</sub>-C<sub>20</sub>-alkylaryl or C<sub>7</sub>-C<sub>20</sub>-arylalkyl and may contain one or more heteroatoms from groups 13 - 17 of the Periodic Table of the Elements or one or more unsaturated bonds, with the two radicals X also being able to be joined to one another;

L is a divalent bridging group selected from the group consisting of C<sub>1</sub>-C<sub>20</sub>-alkylidene, C<sub>3</sub>-C<sub>20</sub>-cycloalkylidene, C<sub>6</sub>-C<sub>20</sub>-arylidene, C<sub>7</sub>-C<sub>20</sub>-alkylarylidene and C<sub>7</sub>-C<sub>20</sub>-arylalkylidene radicals which may contain heteroatoms from groups 13 - 17 of the Periodic Table of the Elements or is a silylidene group having up to 5 silicon atoms;

R<sup>1</sup> and R<sup>2</sup> are identical or different and are each, independently of one another, hydrogen or linear or branched C<sub>1</sub>-C<sub>20</sub>-alkyl or C<sub>3</sub>-C<sub>20</sub>-cycloalkyl which may bear one or more C<sub>1</sub>-C<sub>10</sub>-alkyl radicals as substituents, C<sub>6</sub>-C<sub>20</sub>-aryl, C<sub>7</sub>-C<sub>40</sub>-alkylaryl or C<sub>7</sub>-C<sub>40</sub>-arylalkyl and may contain one or more heteroatoms from groups 13 - 17 of the Periodic Table of the Elements or one or more unsaturated bonds;

T and T' are divalent groups of the formulae (II), (III), (IV), (V), (VI) or (VII),



where

the atoms denoted by the symbols \* and \*\* are in each case joined to the atoms of the compound of the formula (I) which are denoted by the same symbol; and

$R^5$  and  $R^6$  are identical or different and are each, independently of one another, hydrogen or halogen or linear or branched  $C_1-C_{20}$ -alkyl or  $C_3-C_{20}$ -cycloalkyl which may bear one or more  $C_1-C_{10}$ -alkyl radicals as substituents,  $C_6-C_{40}$ -aryl,  $C_7-C_{40}$ -alkylaryl or  $C_7-C_{40}$ -arylalkyl and may contain one or more heteroatoms from groups 13 - 17 of the Periodic Table of the Elements or one or more unsaturated bonds or two radicals  $R^5$  or

$R^5$  and  $R^6$  are joined to one another to form a saturated or unsaturated  $C_3-C_{20}$  ring;

with at least one organometallic compound of formula (VIII)



where

$M^1$  is an alkali metal, an alkaline earth metal or a metal of group 13 of the Periodic Table;

$R^7$  is hydrogen,  $C_1-C_{10}$ -alkyl,  $C_3-C_{10}$ -cycloalkyl,  $C_6-C_{15}$ -aryl, alkylaryl or arylalkyl each having from 1 to 10 carbon atoms in the alkyl part and from 6 to 20 carbon atoms in the aryl part;

$R^8$  and  $R^9$  are each hydrogen, halogen,  $C_1-C_{10}$ -alkyl,  $C_3-C_{10}$ -cycloalkyl,  $C_6-C_{15}$ -aryl, alkylaryl, arylalkyl or alkoxy each having from 1 to 10 carbon atoms in the alkyl part and from 6 to 20 carbon atoms in the aryl part;

$r$  is an integer from 1 to 3;

and

$s$  and  $t$  are integers from 0 to 2, where the sum  $r+s+t$  corresponds to the valence of  $M^3$ ;

wherein the organometallic compounds of formula (VIII) comprise at least one branched alkyl radical comprising up to 10 carbon atoms, or a cycloalkyl radical comprising from 3 to 10 carbon atoms;

to form a ~~metallocene compound reaction~~ product which is added to the modified support, wherein the finely divided support and aluminoxane are combined in suspension, and the reaction product and the modified support are contacted in suspension ~~process is carried out in a suspension, and with~~ the suspension medium ~~[[is]] being removed by evaporation after the reaction product metallocene compound of formula (I) is contacted with the modified support reacted with the at least one organometallic compound of formula (VIII).~~

17. (Previously Presented) The process for preparing a catalyst solid for olefin polymerization as claimed in claim 16, wherein the finely divided support comprises functional groups, and the finely divided support and an amount of the aluminoxane are selected so that essentially the total amount of the aluminoxane used has reacted with the functional groups of the finely divided support.
18. (Previously Presented) The process for preparing a catalyst solid for olefin polymerization as claimed in claim 16, wherein the organometallic compound of formula (VIII) is triisobutylaluminum,

diisobutylaluminum hydride or a mixture of the two compounds.

19. (Previously Presented) A catalyst solid obtained by the process as claimed in claim 16.
20. (Previously Presented) A catalyst system for polymerizing olefins, comprising said catalyst solid as claimed in claim 19.
21. (Previously Presented) A process for polymerizing olefins which comprises using the catalyst system as claimed in claim 20.
22. (Previously Presented) A process for preparing a catalyst solid for olefin polymerization as claimed in claim 17, wherein the organometallic compound of formula (VIII) which is used is triisobutylaluminum, diisobutylaluminum hydride or a mixture of the two compounds.
23. (Previously Presented) A catalyst solid obtained by the process as claimed in claim 22.
24. (Previously Presented) A process for polymerizing olefins which comprises using the catalyst system as claimed in claim 23.